Municipal Wastewater Collection System Annual Report

2024

Submitted – March 2026

Table of Contents

Introduction

The City of Dryden (City) provides a wastewater collection system to collect and convey wastewater to the City's Wastewater Treatment Plant. As per requirements under the Environmental Protection Act R.S.O. 1990 c. E. 19, the City is required to produce an annual report which includes:

- Any Collection System Overflow or Spill of Sewage, include dates, volume, duration and sample results, disinfection (if applicable), adverse impacts and corrective actions
- A Summary of any available monitoring data
- Complaints Received
- Any Operating Problems and associated corrective actions
- A summary of any all calibration, maintenance, and repairs conducted to any major structures associated with the Sewage Collection System (SCS)
- A summary of alterations to the SCS
- A summary of efforts made to reduce SCS overflows, spills, wastewater treatment plant overflows including projects undertaken and competed that results in overall overflow reduction (or elimination), including expenditures and or proposed projects with estimated budget for the following year

Dryden Wastewater Collection System Description

Environmental Certificate of Approval: 223-W601

Dryden Wastewater Treatment Plant Certificate of Approval: 3788-88QNWV

The City's Wastewater SCS collects and conveys wastewater for approximately 2,800 residential and commercial connections. All wastewater collected is conveyed to the City's Wastewater Treatment Plant (WWTP) located at 129 Marguerite Street.

The wastewater conveyance pipes consist of plastic, concrete, and clay in various dimensions and adding up to an approximate linear total of 58km. Wastewater flow is conveyed by gravity, however 5 wastewater pump stations are located throughout the City in areas where natural gravity flow to the WWTP is not an option.

The five pump stations are named Wabigoon Drive, West River Road, Kennedy Road, Ross Street, and Lakeside Drive. A summary of the features for the stations include:

Station Name	Station Capacity (L/S)	# of Pumps	Physical Overflow	Storage Volume (m^3)	Standby Power
Wabigoon Drive	75	3	No	330	Yes
West River Road	38	2	No	21	No
Kennedy Road	30	2	No	12	Provision for Hookup
Ross Street	15	2	No	3	No
Lakeside Drive	26	2	No	3	No

System Overflows and Spills

There were no recorded sewer spills for this reporting year, or related system overflows.

Collection System Monitoring Data

All pump stations are monitored for pump operational status and high-level warnings for operational response by the City's Supervisory Control and Data Acquisition System (SCADA). The SCADA system alerts operational staff regarding equipment problems, or high flow levels in the system. There are no flow measurements or any operational data collected outside of general operational status.

2024 run times for the lift stations are summarized in the following table.

Station Name	Run Time (Hours)
Wabigoon Drive	540
West River Road	285
Kennedy Road	1500
Ross Street	129
Lakeside Drive	1526

Complaints and Issues Received

For the 2024 operational year, 33 complaints and issues received by Public Works for the collection system. These items are tabled below.

Complaint Location	Date of Complaint	Type of Complaint	Cause & Action Taken
Casimir Avenue	January 8	Repair	Manhole broken, manhole repaired
Arthur Street	January 15	Backup	Frozen manhole, thawed to restore service
Wabigoon Drive	January 30	Repair	Manhole broken, manhole repaired
Florence Street	April 8	Backup	Sewer Lateral was blocked, lateral repaired
Nymark Road	April 9	Backup	Sewer Main was blocked, main cleaned out
First Street	April 15	Repair	Sewer Lateral was broken, lateral repaired
Second Street	April 17	Replacement	Sewer Lateral was broken, lateral replaced
Princess Street	May 11	Backup	Sewer Main was blocked, main cleaned out
Duke Street	May 13	Replacement	Sewer Lateral was broken, lateral replaced
Anton Road	May 13	Repair	Manhole broken, manhole repaired
Princess Street	May 22	Backup	Sewer Main was blocked, main cleaned out
First Street	June 11	Replacement	Sewer Lateral was broken, lateral replaced
Davis Street	July 2	Replacement	Sewer Lateral was broken, lateral replaced
Duke Street	July 17	Repair	Manhole broken, manhole repaired
Holland Street	July 22	Repair	Sewer Main was broken, main repaired
Victoria Street	July 26	Backup	Sewer Main was blocked, main cleaned out
Government Street	August 23	Backup	Sewer Main was blocked, main cleaned out
Florence Street	August 28	Repair	Manhole broken, manhole repaired
King Street	September 4	Repair	Sewer Lateral was broken, lateral repaired
St. Charles Street	September 12	Replacement	Sewer Latera was broken, lateral replaced
First Street	September 17	Repair	Sewer Main was broken, main repaired
Florence Street	September 17	Repair	Manhole broken, manhole repaired
Fist Street	September 30	Repair	Manhole broken, manhole repaired
Government Street	October 21	Repair	Sewer Lateral in need of repair, lateral repaired
Heather Drive	October 23	Repair	Manhole was broken, manhole repaired
Nymark Road	October 25	Backup	Sewer Main was blocked, main cleaned out
Victoria Street	October 25	Backup	Sewer Main was blocked, main cleaned out
Pitt Avenue	November 8	Replacement	Sewer Lateral was broken, lateral replaced
Schmidt Crescent	November 18	Replacement	Sewer Lateral broken, lateral replaced
Florence Street	November 22	Relining	Sewer Lateral in need of repair, relined
Ross Street	November 22	Relining	Sewer Lateral in need of repair, relined
Park Crescent	December 5	Repair	Sewer Lateral in need of repair, lateral repaired
First Street	December 4	Replacement	Sewer Lateral broken, lateral replaced

Overall System Operation

Collection System Operation and Maintenance

In addition to capital upgrades the City also repairs and maintains existing infrastructure. Over this calendar year, repairs by Public Works staff were performed to five sewer laterals, eight sewer lateral replacements, two sewer main repairs, eight manhole repairs and one sewer main installation.

The City additionally issues an annual Closed Circuit Television inspection program. For 2024, an approximate total of 2km of collection system piping was inspected for Duke Street, First Street, Swanson Street, Grand Trunk Avenue, Arthur Street, Morrison Avenue, Lakeside Drive, Heather Drive, Scott Street, Swanson Street, Casmir Avenue, and Third Street.

Lift Station Operation and Maintenance

There were no significant issues with any of the lift station components within the SCS for the operating year of 2024. All pump station pumps are inspected and repaired (if necessary) every two years. The pump inspection records can be found in Appendix A for 2024.

Generator maintenance records for the Wabigoon Lift Station can be found in Appendix B.

A Lift Station Assessment by a consulting firm was completed in 2024, and the associated findings to maintain asset health will be included in the City's long-term budgetary process.

Alterations to Collection System

No alterations were made to the Collection System in the 2024 operating year.

Activities to Reduce Overflows & Spills

In this calendar year, approximately $223,000 was spent on the SCS consisting via capital upgrades. These projects included:

Project Name	Expense Type	Location	Value
Sanitary Manhole Lining	Repair	City Wide	$100,000
Van Horn Extension of Services	Design	Wastewater Collection	$50,000
Lift Station Condition Assessment	Maintenance	All Lift Stations	$50,000
CCTV Program	Maintenance	City Wide	$23,000

Ensuring that the collection system remains in a good state of repair allows the City to minimize inflow and infiltration of groundwater, and maintain assets in good health which reduces the risk of spills and overflows to the environment.

More Information or Questions

This report is available to the public free of charge to anyone who requests a copy. An electronic copy is available on the City of Dryden's website, and anyone wanting to be provided a paper copy can make arrangement to pick one up from the Public Works Office. Any concerns or inquiries of this report can be directed to:

Bill Mundy C.E.T.
Utilities and Environmental Services Manager
807-223-1407
bmundy@dryden.ca
www.dryden.ca

Appendix A
Pump Inspection Records

Appendix B
Generator Maintenance Records

DO NOT USE UNTIL JAN 2024

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
							Air starter					
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air pressure	Valve leakage	Aux. engine	Bleed condensate		
9/16	✓	✓	✓	✓	✓	✓					BM	01/01/24
"	✓	✓	✓	✓	✓	✓					ST	01 09 24
"	—	—	—	—	—	—					WAHo	01/17/24
"	—	—	—	—	—	—					WAHo	01/24/24
"	—	—	—	—	—	—					WAHo	01/31/24
"	—	—	—	—	—	—					WAHo	02/07/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	✓	✓	✓	✓	BM	01/01/24
✓	✓	✓	✓			✓	ST	01 09 24
—	—	—	125°			—	WAHo	01/17/24
—	—	—	127°			—	WAHo	01/24/24
—	—	—	123°			—	WAHo	01/31/24
—	—	—	117°			—	WAHo	02/07/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	Hrs					
✓	✓	✓	✓	✓	✓	✓	~~25.6~~	286.7				BM	01/01/24
✓	✓	✓	✓	✓	✓	✓	✓	" "				ST	01 09 24
—	—	—	—	—	—	—	—	" "				WAHo	01/17/24
—	—	—	—	—	—	—	—	287.8				WAHo	01/24/24
—	—	—	—	—	—	—	—	" "				WAHo	01/31/24
—	—	—	—	—	—	—	—	" "				WAHo	02/07/24

Notes:
(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*
(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
							Air starter					
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air pressure	Valve leakage	Aux. engine	Bleed condensate		
9/16	✓	✓	✓	✓	✓	✓					JZ Feb 9/24	
〃 〃	—	—	—	—	—	—					WTho	FEB 28/24
〃 〃	—	—	—	—	—	—					WTho	MAR 6/24
1/2 ~~1/2~~	✓	✓	✓	✓	✓	—					BM	Mar 11/24
1/2	—	—	—	—	—	—					WTho	Mar 20/24
〃 〃	—	—	—	—	—	—					WTho	MAR 27/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	127° ✓			✓	JZ Feb 9/24	
—	—	—	117°			—	WTho	FEB 28/24
—	—	—	120°			—	WTho	MAR 6/24
✓	✓	✓	124°			✓	BM	Mar 11/24
—	—	—	117°			—	WTho	MAR 20/24
—	—	—	113°			—	WTho	MAR 27/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HRS					
✓	✓	✓	✓	✓	✓	22°	✓	288.9				JZ Feb 9/24	
—	—	—	—	—	—	20°	—	〃 〃				WTho	FEB 28/24
✓	✓	✓	✓	✓	✓	22°	✓	〃 〃				WTho	MAR 6/24
✓	✓	✓	✓	✓	✓	23°	✓	290.0				BM	Mar 11/24
—	—	—	—	—	—	22°	—	〃 〃				WTho	MAR 20/24
—	—	—	—	✓	—	24°		〃 〃				WTho	MAR 27/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
							Air starter					
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air pressure	Valve leakage	Aux. engine	Bleed condensate		
2 1/2	✓	—	✓	—	—	✓					WAHo	APR 3/24
" "	✓	✓	—	—	—	—					WAHo	APR 10/24
" "	—	—	✓	—	—	—					WAHo	APR 17/24
X	X	X	X	X	X	X					MH	4 23 24
✓	✓	✓	✓	✓	—	✓					WAHo	05/01/24
" "	✓	✓	✓	✓	✓	✓					Rm	May 6/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	105°			✓	WAHo	APR 3/24
✓	✓	✓	125°			✓	WAHo	APR 10/24
✓	✓	✓	109°			✓	WAHo	APR 17/24
X	X	X	111°			X	MH	4 23 24
✓	✓	✓	127°			✓	WAHo	05/01/24
✓	✓	✓	115°			✓	Rm	May 6/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HRS					
✓	✓	✓	✓	✓	✓	23°	✓	3920				WAHo	APR 3/24
✓	✓	✓	✓	✓	✓	22°	✓	" "				WAHo	APR 10/24
✓	✓	✓	✓	✓	✓	21°	✓	" "				WAHo	APR 17/24
X	X	X	X	X	X	20°	X	2990				MH	4 23 24
✓	✓	✓	✓	✓	✓	22°	✓	2991				WAHo	05/01/24
✓	✓	✓	✓	✓	✓	21°	✓	2992				Rm	May 6/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
							Air starter					
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air pressure	Valve leakage	Aux. engine	Bleed condensate		
Δ1/2	✓	✓	✓	✓	✓	✓					WMcH	MAY 15/24
" "	✓	✓	✓	✓	✓	✓					WMcH	May 23/24
" "	✓	✓	✓	✓	✓	✓					WMcH	May 30/24
" "	✓	✓	✓	✓	✓	✓					WMcH	JUN 4/24
" "	✓	✓	✓	✓	✓	✓					WMcH	JUN 12/24
" "	✓	✓	✓	✓	✓	✓					WMcH	JUNE 19/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	111°			✓	WMcH	MAY 15/24
✓	✓	✓	109°			✓	WMcH	May 23/24
✓	✓	✓	121°			✓	WMcH	May 30/24
✓	✓	✓	112°			✓	WMcH	JUN 4/24
✓	✓	✓	121°			✓	WMcH	JUN 12/24
✓	✓	✓	126°			✓	WMcH	JUNE 19/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HPS					
✓	✓	✓	✓	✓	✓	20°	✓	292				WMcH	MAY 15/24
✓	✓	✓	✓	✓	✓	"	✓	"				WMcH	MAY 23/24
✓	✓	✓	✓	✓	✓	"	✓	294				WMcH	MAY 30/24
✓	✓	✓	✓	✓	✓	"	✓	294				WMcH	JUN 4/24
✓	✓	✓	✓	✓	✓	"	✓	294				WMcH	JUN 12/24
✓	✓	✓	✓	✓	✓	"	✓	294				WMcH	JUNE 19/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air starter: Air pressure	Air starter: Valve leakage	Air starter: Aux. engine	Air starter: Bleed condensate		
1/2	—	—	—	✓	✓	—					WAHo	June 26/24
✓	✓	✓	✓	✓	✓	✓					[illegible]	July 2/24
1/2	✓	✓	✓	✓	✓	✓					CE	07/03/24
✓	✓	✓	✓	✓	✓	✓					[illegible]	7/16/24
1/2	—	—	—	—	—	—					WAHo	07/25/24
1/2	✓	✓	✓	✓	✓	✓					CE	07/30/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	118°			✓	WAHo	June 26/24
✓	✓	✓	107°			✓	[illegible]	July 2/24
✓	✓	✓	112°			✓	CE	07/03/24
✓	✓	✓	111			✓	[illegible]	7/16/24
✓	✓	✓	117°			✓	WAHo	07/25/24
✓	✓	✓	105°			✓	CE	07/30/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HOS					
✓	✓	✓	✓	✓	✓	✓	✓	298.0				WAHo	June 26/24
✓	✓	✓	✓	✓	✓	✓	✓	298.0				[illegible]	July 2/24
✓	✓	✓	✓	✓	✓	✓	✓	298.0				CE	07/08/24
✓	✓	✓	✓	✓	✓	✓	✓	300.6				[illegible]	7/16/24
✓	✓	✓	✓	✓	✓	✓	✓	301.6				WAHo	07/25/24
✓	✓	✓	✓	✓	✓	✓	✓	301.6				CE	07/30/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air starter: Air pressure	Air starter: Valve leakage	Air starter: Aux. engine	Air starter: Bleed condensate		
1/2	✓	✓	✓	✓	✓	✓						Aug 5/24
1/2	✓	✓	✓	✓	✓	✓						Aug 12/24
1/2	—	—	—	—	—	—						Aug 22/24
1/2	✓	✓	✓	✓	✓	✓						Aug 26/24
" "	✓	✓	✓	✓	✓	✓						Sept 2/24
" "	—	—	—	—	—	—						SEPT 10/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	107°			✓		Aug 5/24
✓	✓	✓	110°			✓		Aug 12/24
—	—	—	101°			—		Aug 22/24
✓	✓	✓	100°			✓		Aug 26/24
✓	✓	✓	105°			✓		Sept 2/24
—	—	—	112°			—		SEPT 10/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HRS.					
✓	✓	✓	✓	✓	✓	25°	✓	301.6					Aug 5/24
✓	✓	✓	✓	✓	✓	24°	✓	" "					Aug 12/24
—	—	—	—	—	—	23°	—	302.6					Aug 22/24
—	—	—	—	—	—	28	✓	" "				Aug 26/24	
✓	✓	✓	✓	✓	✓	23°	—	" "					Sept 2/24
—	—	—	—	—	—	22°	—	303.6					SEPT 10/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air starter: Air pressure	Air starter: Valve leakage	Air starter: Aux. engine	Air starter: Bleed condensate		
L1/2	—	—	—	—	—	—					WH	Sept 18/24
" "	—	—	—	—	—	—					WH	Sept 25/24
" "	—	—	—	—	—	—					WH	Oct 2/24
" "	✓	✓	✓	✓	✓	✓						Oct 7/24
✓	✓	✓	✓	✓	✓	✓						Oct 14/24
✓	✓	✓	✓	✓	✓	✓					WH	Oct 23/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
—	—	—	118° —			—	WH	Sept 18/24
✓	—	✓	108° —			—	WH	Sept 25/24
—	—	—	126°			—	WH	Oct 2/24
✓	✓	✓	103°			✓		Oct 7/24
✓	✓	✓	127°			✓		Oct 14/24
✓	✓	✓	109°			✓	WH	Oct 23/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HPS					
✓	—	—	—	—	—	25°	✓	303.6				WH	Sept 18/24
✓	✓	✓	✓	✓	—	20°	✓	303.6				WH	Sept 25/24
✓	—	—	—	—	—	17°	—	303.6				WH	Oct 2/24
✓	✓	✓	✓	✓	✓	19°	✓	303.6					Oct 7/24
✓	✓	✓	✓	✓	✓	22°	✓	304.6					Oct 14/24
✓	✓	✓	✓	✓	✓	22°	✓	304.6				WH	Oct 23/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air starter: Air pressure	Air starter: Valve leakage	Air starter: Aux. engine	Air starter: Bleed condensate		
L 1/2	✓	✓	✓	✓	✓	✓						Oct 28/24
1 "	✓	✓	✓	✓	✓	✓						Nov 4/24
L 1/2	✓	✓	✓	✓	✓	✓						Nov 12/24
" "	✓	✓	✓	✓	✓	✓						Nov 20/24
F	F	F	O	F	F	F						11 26 24
L 1/2	✓	✓	✓	✓	✓	✓						12/04/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	117			✓		Oct 28/24
✓	✓	✓	124°			✓		Nov 4/24
✓	✓	✓	124°			✓		Nov 12/24
✓	✓	✓	112°			✓		Nov 20/24
F	F	F	115			F		11 26 24
✓	✓	✓	125°			✓		12/04/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	ARS					
✓	✓	✓	✓	✓	✓	24°	✓	304.6					Oct 28/24
✓	✓	✓	✓	✓	✓	17°	✓	" "					Nov 4/24
✓	✓	✓	✓	✓	✓	23°	✓	" "					Nov 12/24
✓	✓	✓	✓	✓	✓	24°	✓	" "					Nov 20/24
F	F	F	F	F	F	23	F	" "					11 26 24
✓	✓	✓	✓	✓	✓	24	✓	305.6					12/04/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

★ DO NOT USE THIS LOGBOOK PAST DEC 31st 2024 ★

Weekly inspection, test, and maintenance requirements (refer to Table 2 on page 1)

Consumables (No. 1)						Starter system (No. 2)					Signature	Date
							Air starter					
Auxiliary supply tank fuel level	Oil level	Coolant level	Check for leaks	Fuel transfer pump	Fuel filter	Electric starter	Air pressure	Valve leakage	Aux. engine	Bleed condensate		
1/2	✓	✓	✓	✓	✓	✓					WAHo	Dec 11/24
"	✓	✓	✓	✓	✓	✓					SD	Dec 16/24
5/8	✓	✓	✓	✓	✓	✓					Bm	Dec 23/24
7/16	✓	✓	✓	✓	✓	✓					CR	Dec 30/24

Batteries and charging equipment (No. 3)			Engine (No. 4)				Signature	Date
Electrical connections	Battery terminals	Charger connections	Heater operation	Governor	Fuel pump oil sump	Fan belts		
✓	✓	✓	114°			✓	WAHo	DEC 11/24
✓	✓	✓	125°			✓	SD	Dec 16/24
✓	✓	✓				✓	Bm	Dec 23/24
✓	✓	✓	~~129~~ 129			✓	CR	Dec 30/24

Control panel (No. 5)				Other (Nos. 6 to 9)				Additional requirements, if applicable (see Clause 11.5.2)				Signature	Date
Panel covers	Annunciator lamps	Panel settings	Visual and audible signals	Air control louvres	Emergency lighting	Room temp. (°C)	Room cleanliness and accessibility	HRS					
✓	✓	✓	✓	✓	✓	21°	✓	305.6				WAHo	Dec 11/24
✓	✓	✓	✓	✓	✓	22°	✓	" "					
✓	✓	✓	✓	✓	✓	22	✓	306.4				Bm	Dec 23/24
✓	✓	✓	✓	✓	✓	20°	✓	306.6				CR	Dec 30/24

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Monthly (weekly in health care facilities) inspection, test, and maintenance requirements (refer to Table 3 on page 1)

No. 1	Complete system test (No. 2)								No. 3	Batteries and charging equipment (No. 4)		Nos. 5 to 7			Signature	Date
Weekly items	Failure simulation	Battery charger output	40% load test for 60 min	Transfer switches	Brush operation	Bearing seals	Auxiliary equipment	Exhaust condensate trap	Block heater hoses & wires	Electrolyte fill level *	Electrolyte-specific gravity *	Defects found	Defects corrected	Electrical components		
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Jan 9 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Feb 9 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Mar 8 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Apr 23/24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		May 8 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Jun 19/24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Jul 16 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Aug 16/24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Sep 5 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Oct 11 /24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Nov 26/24
X	X	X	X	X	X	X	X	X	X	X	X	no	n/a	X		Dec 16/24

	Instrument readings (No. 2(h)) (identify each instrument in box at top of each column)																Signature	Date
ON	OFF	OILP	COOLANT°	BATV	R.P.M	LN1V	LN2V	LN3V	L1AMP	L2AMP	L3AMP	HZ						
286.7	287.8	60	170	13.7	1801	349	350	349	8	10	11	60.1						Jan 19 /24
287.8	288.9	62	169	13.8	1801	350	351	349	44	48	47	60.1						Feb 9 /24
288.9	290	60	167	13.8	1800	350	351	350	46	48	47	60.1						Mar 8 /24
290	291	60	169	13.8	1800	350	350	349	45	49	48	60.1						Apr 23/24
291	292	62	167	13.9	1801	350	351	349	44	47	47	60.1						May 8 /24
294	295	66	169	13.9	1801	350	351	349	44	46	46	60.1						Jun 19 /24
300.6	301.6	64	168	13.9	1800	350	350	349	6	9	9	60.1						Jul 16 /24
301.6	302.6	61	170°	13.9	1801	350	351	349	42	47	46	60.1						Aug 16 /24
302.6	303.6	60	168°	13.8	1801	350	351	349	45	49	48	60.1						Sep 5 /24
303.6	304.6	61	165	13.7	1801	350	351	349	44	50	48	60.1						Oct 11 /24
304.6	305.6	63	166	13.8	1801	350	350	349	44	47	44	60.1						Nov 26 /24
305.6	306.6	62	167	13.8	1801	350	350	348	44	48	44	60.1						Dec 16 /24

*Applicable to vented or flooded lead acid batteries only.

Notes:

(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

ON

123

Semi-annual inspection, test, and maintenance requirements (refer to Table 4 on page 1)

No. 1		Engine (Nos. 2 to 5)				Battery (No. 6)			No. 7				
Weekly items	Monthly items	Crankcase breathers	Linkages	Lubricate governor	Protective devices*	First cranking cycle	Second cranking cycle	Battery load test	Inspect ventilation system belt(s)	Defects found	Defects corrected	Signature	Date
✓	✓	✓	N/A	N/A	X	10.3	10.7	N/A	N/A	NO	NONE	[signature]	3624

If it is not possible to create the fault condition, a simulated fault condition should be performed if possible.

Notes:

(1) *For Nos. 1 to 6, mark "X" for satisfactory or "O" for unsatisfactory. For No. 7, mark "X" for satisfactory and "R" for replaced.*

(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Annual inspection, test, and maintenance requirements — Sheet #1 (refer to Table 5 on page 2)

No. 1	Control panel (No. 2)										
Weekly, monthly, and semi-annual items	Electrical connections	Breaker operation	Insulators and bushings	Voltage regulator	Operate moving parts	Clean and dress contacts	Remove dust	Gauge calibration	Valve rotation and audible alarm	Signature	Date
X	X	X	X	X	X	X	X	X	NA	[signature]	May 27, 2024

Engine (No. 3)													
Change engine oil and filters	Coolant strength and inhibitors	Change fuel filters etc.	Inspect and clean exhaust system	Clean and lubricate linkages	Inspect air filters	Inspect mechanical connections	Inspect electrical connections	Inspect heat exchanges	Inspect belts and hoses	Test and inspect ignition system(s)	Inspect coolant pump(s)	Signature	Date
X	X	X	X	X	X	X	X	X	X	NA	X	[signature]	May 27, 2024
X	X	X	X		X				X		X	[signature]	Aug 16 2024

Notes:
(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*
(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Annual inspection, test, and maintenance requirements — Sheet #2 (refer to Table 5 on page 2)

Diesel fuel storage tank(s) (No. 4)			Generator (No. 5)								Signature	Date
Test fuel oil (clear and bright test)	Chemical test for water	If fuel oil test fails: drain and refill fuel tanks or full filter fuel	Suppressor and rectifier	Grease bearings	Commutator and slip rings	Rotor and stator windings	Coupling bolts and alignment	Conduits (tightness)	Windings	Electrical connections		
Y	Y	NA	NA	X	NA	Y	X	X	X	X	[signature]	May 27, 2021

Overcurrent protective devices (No. 6)			Transfer switches (No. 7)					Signature	Date
Electrical isolation	Remove dust	Test devices for proper operation	Electrical connections	Operate moving parts	Clean and dress contacts	Remove dust	Clean and lubricate linkages		
Y	Y	X	X	Y	X	X	X	[signature]	May 27, 2021

Notes:
(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*
(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Annual inspection, test, and maintenance requirements — Sheet #3 (refer to Table 5 on page 2)

Infrared thermal imaging (No. 8)									Signature	Date
40% site load			40% site load pre-cable connection			Full load				
Electrical connections	Contacts	Energized components	Electrical connections	Contacts	Energized components	Electrical connections	Contacts	Energized components		
X	X	X	X	X	X	X	X	X	JA	May 27, 2024

No. 9	No. 10	No. 11	Defects found	Defects corrected	Signature	Date
Lubricate door locks and hinges	2 h full load test	Review and provide instructions				
X	X	X			JA	May 27, 2024

Notes:
(1) *Mark "X" for satisfactory or "O" for unsatisfactory.*
(2) *The work described in this Table shall be carried out by a competent person or individuals trained by the system manufacturer.*

Maintenance repairs and replacements

Date	Unit no.	Defects	Service notes	Signature
AUG 16/24	WAB DRIVE	ANNUAL MAINTENANCE	REPLACE ENGINE OIL & FILTERS, CHECK COOLANT CONDITION & CONDITION.	

GAL POWER SYSTEMS LTD.

GAL POWER SYSTEMS THUNDER BAY LTD.

219 Hardisty Street North, Thunder Bay, ON, P7C 3G8
PHONE 807-346-6888
FAX 807-346-0696

WO#: 202402287
CUSTOMER #:
DATE: 05/27/2024 3:00 PM END: 05/27/2024 5:00 PM
HOUR METER START: 292
HOUR METER STOP: 294

Annual

CUSTOMER INFORMATION

CUSTOMER ADDRESS		GENERATOR	ALTERNATOR	ENGINE
City of Dryden Wabigoon Drive Lift Station	MAKE	Olympian	na	Perkins
	MODEL	D125P1	na	2332/1800
CONTACT INFORMATION	SN	OLY00000LNAT01748	na	YD51130*U868237N
NAME: Merv	REASON FOR SERVICE			
PH#: 8072219148	Annual			

GENERAL INSPECTION (WEEKLY / MONTHLY / QUARTERLY)

VISUAL	READING	OPERATION	MANUAL	OK	NA
FUEL LEVEL DAY TANK	na	FUEL TRANSFER PUMP			✓
FUEL LEVEL MAIN TANK	full	TRANSFER PUMP CONTROLS			✓
2 HR CAPACITY IN TANK YES/NO	Yes	VENTILATION SYSTEM		✓	
FUEL LINE CONDITION	ok	DRAIN EXHAUST SYSTEM		✓	
OIL LEVEL	full	GENERATOR	READING		
CRANKCASE BREATHER	ok	VOLTAGE	600	Vac	
COOLANT LEVEL	full	FREQUENCY	60.1	Hz	
COOLANT CONDITION	ok	AMPERAGE L1	120	A	
RADIATOR CONDITION/CLEAN	ok	AMPERAGE L2	120	A	
ALL HOSES	ok	AMPERAGE L3	120	A	
OPERATIONAL BLOCK HEATER	ok	ENGINE TEMP.	190°f		
AIR FILTER	ok	OIL PRESSURE	50 Psi		
FAN BELT CONDITION/TIGHTNESS	ok	BATTERY	14	V	
VIBRATION MOUNTS	ok	DC CHARGING AMPS	5		
TRANSFER SWITCH VISUAL	ok	EXHAUST TEMP. LEFT	na		
LINKAGES	ok	EXHAUST TEMP. CENTRE	600°f		
STARTER CONNECTION	ok	EXHAUST TEMP. RIGHT	na		
BATTERY FLOAT LEVEL	13	ROOM TEMP.	20°c		
BATTERY CHARGE RATE	.3			YES	NO
		TRANSFER TEST PERFORMED			✓
		30% LOAD ACHIEVED		✓	

BATTERY INSPECTION

MAINTENANCE-FREE? Yes

BATTERY 1		BATTERY 2	
CELL	S.G.	CELL	S.G.
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
TEST	A	TEST	A
TEST	V	TEST	V
BATTERY 3		BATTERY 4	
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
TEST	A	TEST	A
TEST	V	TEST	V

SEMI-ANUAL INSPECTION (INCLUDES GENERAL INSPECTION)

	YES	NO		YES	NO	OIL SAMPLE TRACKING:
OIL SAMPLE		✓	TEST SAFETIES	✓		
CLEAN BATT. CONNECTIONS	✓		INSPECT EXHAUST SYSTEM	✓		
INSPECT BATTERY CONNECTIONS	✓					

ANNUAL INSPECTION (INCLUDES GENERAL INSPECTION)

	YES	NO		YES	NO	EXHAUST BACK PRESSURE	na	
OIL CHANGE		✓	INSPECT BREAKERS	✓		TEST REQUIRED	YES	NO
OIL FILTER CHANGE		✓	INSPECT VOLTAGE REGULATOR	✓		WITH LOAD		✓
FUEL FILTER CHANGE		✓	CALIBRATION OF GAUGES	✓		IGNITION SYSTEM	na	
LOAD TEST PERFORMED	✓		CLEAN PANELS	✓		COUPLER BOLTS	ok	
FUEL FILTERING PERFORMED		✓	INSPECT ELECTRICAL CONNECTIONS	✓		CHECK WINDINGS	ok	
			INSPECT ATS CONTACTS	✓				
FUEL CLEAR AND BRIGHT TEST PERFORMED Yes				Pass		VOLTAGE AFTER 2X CRANK ok		

WORK PERFORMED/RECOMMENDATIONS

Annual

Full two hour load test performed. No transfer test as per customer request.

DOES INSPECTION CONFORM TO CSA 282: Yes.

ADDITIONAL PARTS USED

none

	Yes	No		Yes	No
Fire Log Book Entry		✓	Generator Log Book Entry	✓	
Unit in Auto	✓		Battery Charger On	✓	
Alarms Cleared on All Panels	✓		Repair Recommendation		✓

Merv
CUSTOMER ON SITE

SIGNATURE FOR RECEPTION OF SERVICE

CUSTOMER SIGNATURE

Josh Smith

GAL TECHNICIAN